Notice of Allowability	Application No.	Applicant(s)	
	10/709,943	HSIEH ET AL.	
	Examiner	Art Unit	
	Eric Rush	2624	
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.			
1. This communication is responsive to 20 July 2007.			
2. The allowed claim(s) is/are 1 and 9 -15, now renumbered	<u>1-8</u> .	·	
 3. Acknowledgment is made of a claim for foreign priority unall a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 		or (f).	
2. Certified copies of the priority documents have	been received in Applicati	on No	
3. Copies of the certified copies of the priority documents have been received in this national stage application from the			
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.			
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.			
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.			
(a) 🔲 including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached			
1) hereto or 2) to Paper No./Mail Date			
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date			
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).			
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.			
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Attachment(s)			
1. ☑ Notice of References Cited (PTO-892)		nformal Patent Application	:
2. Notice of Draftperson's Patent Drawing Review (PTO-948)		Summary (PTO-413), /Mail Date	
3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date		Amendment/Comment	
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. 🛛 Examiner's	Statement of Reasons for Allowance	
	9. 🔲 Other	_·	
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DETAILED ACTION

Allowable Subject Matter

- 1. Claim 1 and 8 15, now renumbered 1 8 are allowed.
- 2. The following is an examiner's statement of reasons for allowance: the prior art does not anticipate, nor does it suggest, the combination as now claimed in the claims. Specifically, using intensity values and saturation values calculated by, I=(R+G+B)/3 and S=1-Min(R,G,B)/I, respectively, in order to determine whether an image is a color, gray scale, or black and white image. Also, determining whether an image is a color, gray scale, or black and white image by comparing intensity and saturation density values to a first threshold followed by calculating a histogram, thresholding, applying a dilation or erosion function, and subjecting the output to a second threshold to determine the image composition. These elements in combinations with the remaining components of the independent claim are not taught nor are suggested by the prior art.
- 3. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

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- Shin et al. U.S. Publication No. 2005/0276471 A1; which is directed towards a color-spoke processing apparatus.
- Hirota et al. U.S. Patent No. 7,177,462; which is directed towards a color image determination method.
- Ferman et al. U.S. Publication No. 2005/0163374 A1; which is directed towards a method and system for automatic detection of continuous-tone regions.
- Suzuki et al. U.S. Patent No. 6,118,552; which is directed towards an image signal encoding apparatus.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Eric Rush whose telephone number is (571) 270-3017. The examiner can normally be reached on 7:30AM - 5:00PM (EST).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Samir Ahmed can be reached on (571) 272-7413. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

ER

SAMIR AHMED PRIMARY EXAMINER